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**Community United Methodist Church
United Methodist Regional Ministry Campus
Master Plan**

By

Saori Endo

Thesis submitted in partial fulfillment
of the requirements for the degree

DEPARTMENT HONORS

in

Landscape Architecture and Environmental Planning

UTAH STATE UNIVERSITY
Logan, UT

2005

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United Methodist Regional Ministry Campus
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Approved:

Thesis/Project Advisor

David Bell

Department Honors Advisor

Michael L. Timmons

Director of Honors Program

David F. Lancy

UTAH STATE UNIVERSITY
Logan, UT

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Introduction

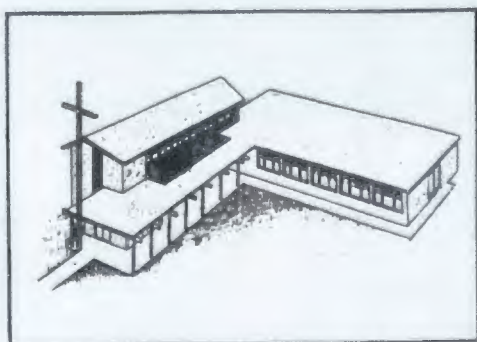
The United Methodist Church has sought for the place that members can worship, learn, social and recreate. The purchase of 24 acres of land in South Weber, Utah made its opening to the place, and they are looking for their identity that they can be proud of ultimately. The intention of this project is generating ideas to help them to find out what they are looking for, yet guide the ideas properly.



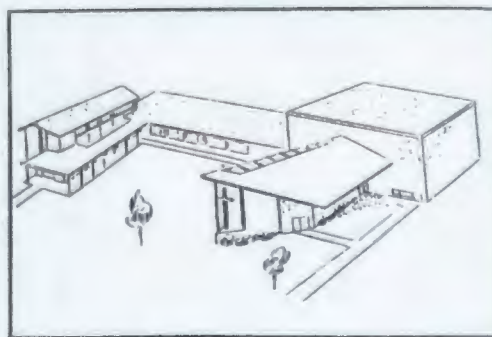
Original Chapel—1956



Construction of the current Sanctuary—1981



Addition of Education Wing—1962



The new Sanctuary—1981
and Fellowship Hall—1988



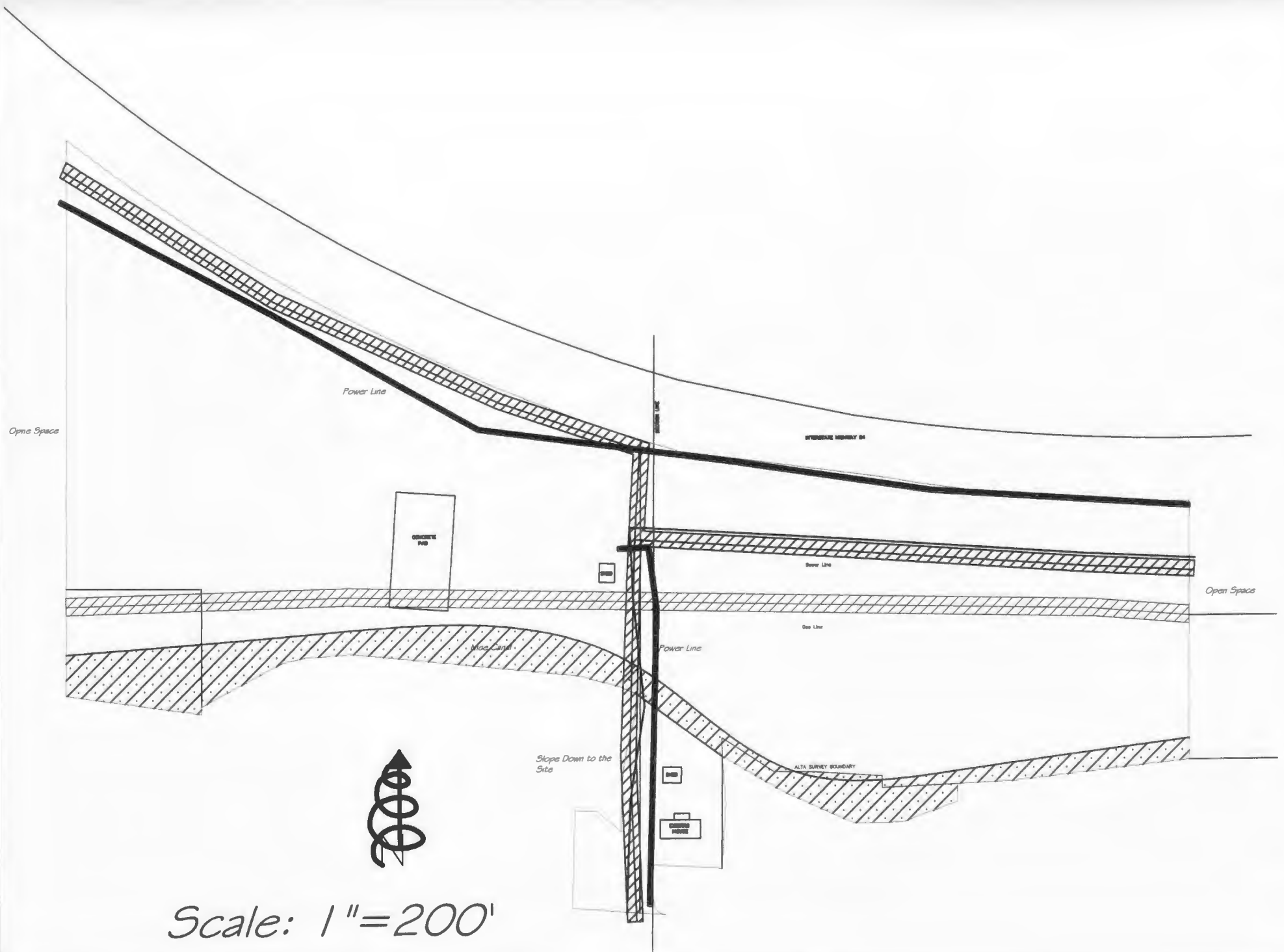
Worship Service in the Chapel—1963



Celebrating Ascension Sunday—2002

Site Inventory

- Used to be dairy/ pasture farm
- Very nice view to mountains
- North side defined by highway (Interstate 84) which is elevated
- Canal with trees exist within the site on the south end
- One main entrance to big site
- Some weed problem within the site and sidewalks
- Existing gas line and sewer line
- Power lines run one from east to west and one from north to south
- Slope down from entrance to main site
- Two existing valves for irrigation through community



Site Analysis

Opportunities

- Very nice view to mountains
- Nice canal with trees exist within the site on the south end – try to keep it
- Construct nice park strips along canal
- Slope down from entrance to main site: Nice introduction view to the site and church.
- West side will remain open

Neutral

- South Weber City has asked to build 60' bypass on the north side
 - Fair amount of land will be lost
 - New access(es) to the site

Constrains

- Power lines run one from east to west and one from north to south: East –west line remain above the ground, and north-south line can go underground.
- Existing gas line and sewer line which divide the possible building site: It limits building configuration
- One main entrance to big site: Providing more entrance is important to smoother traffic for both church use and hazard safety.
- North side defined by highway (Interstate 84), which is elevated and it, is not bad visibility and noise: It is necessary to provide a strong buffer because the growth is estimated in long run.
- Some weed problem within the site and sidewalks
- East side is estimated to be developed for housing complex

Remain to be open
space in the future
Do not required
thick buffer

Potential building development zone
Flat topography.

To be removed

CHURCH

To be removed

Keep the canal

Wash Canal

Power Line

Proposed bypass by South Weber City
Requires buffer to the site
Potential to have additional entries to the site

Sewer Line

No building on top of the sewer line

Prop Line To be moved to bypass

Potential building development zone
Flat topography.

Requires thicker
buffer
Create the buffer
as it is developed

Slope Down to the Site
Nice introduction view to the
site

Create nice entry



Scale: 1"=200'

WATER

CHURCH HOUSE

ALTA SURVEY BOUNDARY

Client's Goals and Objectives Analysis

Space

- Special space for members and others
- Members: Have a space with own identity which is different from other places (ex. existing church) and represent peace and safety
- Others: Welcoming and inviting
Strong connection with the surrounding community

Purposes

- Religious
- Educational
- Social
- Recreational

Important Features for The Site

Lighting

- Many evening time events are predicted
- Provide street lights that focus on the pedestrian zone, either through additional smaller lights or adding a lower light for rear parking lot

Signage

- Install signs to direct visitors for:
 - parking
 - public areas (plazas, picnic area, recreation area, other outdoor activities, and buildings)
- Trim and maintain vegetation so that visitors can see signs
- Install pedestrian kiosk/ sign board that contains scale map of the site, upcoming events, and any other information)

Identity

- Adopt specific design and maintenance codes for:
 - buildings
 - sidewalks
 - planting strips
 - parking area
- Allow for outside seating/activity areas

Sidewalks and planting strips

- Use curb cuts that are just enough to drain
- Develop and enforce a guidance plan for plant materials used in the site
- Consider universal access on the pedestrian zones
 - sidewalks
 - cross walks
 - path
 - street width
- Implement appropriate regular maintenance for all side walks and landscape areas, including trash/debris removal

Parking and Road

- Develop covered and seated shelters for bus stop
- Make crosswalks more visible to traffic:
 - appropriate placement of crossing
 - use of different texture and color pavement for crosswalks (ex. cobble, brick, flagstone, and concrete)
 - appropriate signage
- Install corners that allow for a safe turning radius for regular cars and service vans/buses

- Facilitate safe entry into traffic flow:
 - large radius → fast cornering
 - small radius → slow traffic
- Accommodate bicycle traffic in the site
- Walking pathway for scenic and enjoyment

Universal Design

For:

- Elderly people
- Handicapped people
- People with small children

Achieved through:

- Color
- Texture
- Size
- Sound
- Fragrance

Developing Process

Analysis of required buildings

Worship Complex

- Building is very large and likely to be dominant
- Requires a large space to fulfill the parking needs and the way to reduce domination to the site
→ walkability and pedestrian friendly design

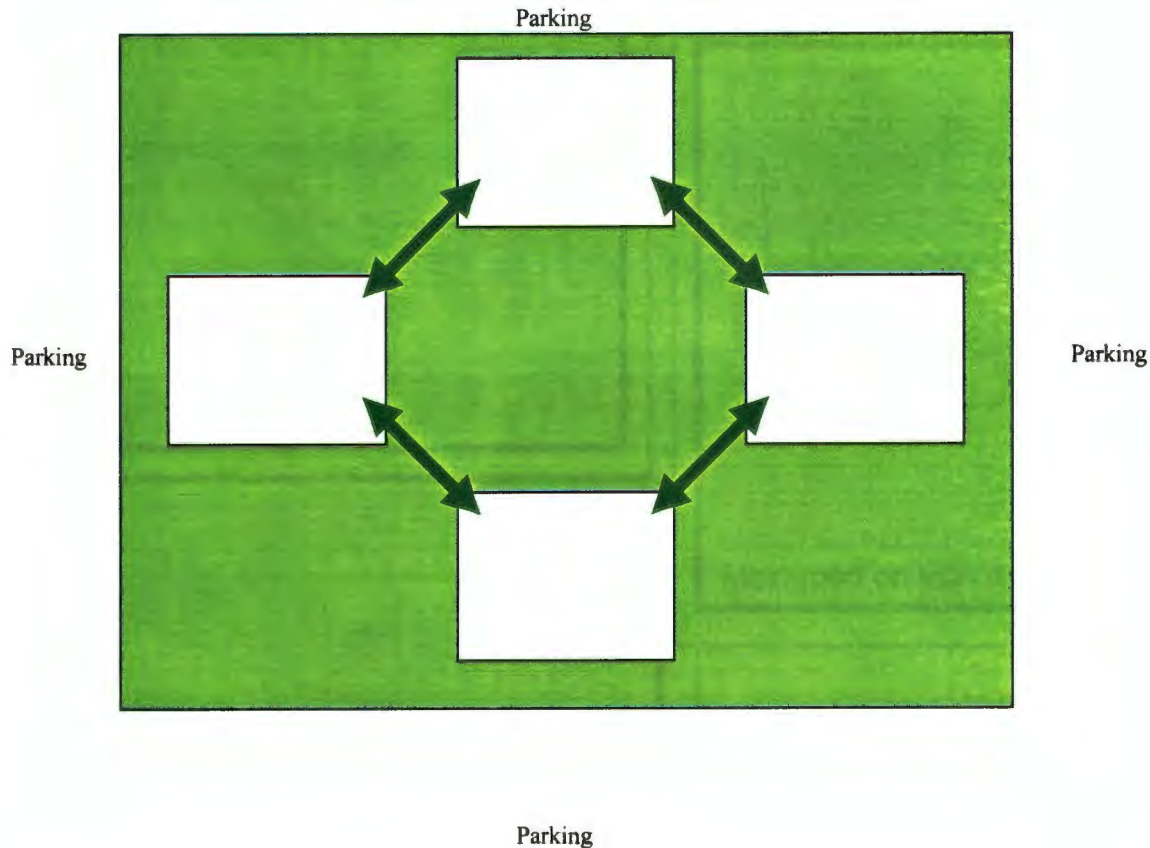
Other buildings

- Nice to make some mix-use building complex
- Construct two-story buildings if possible

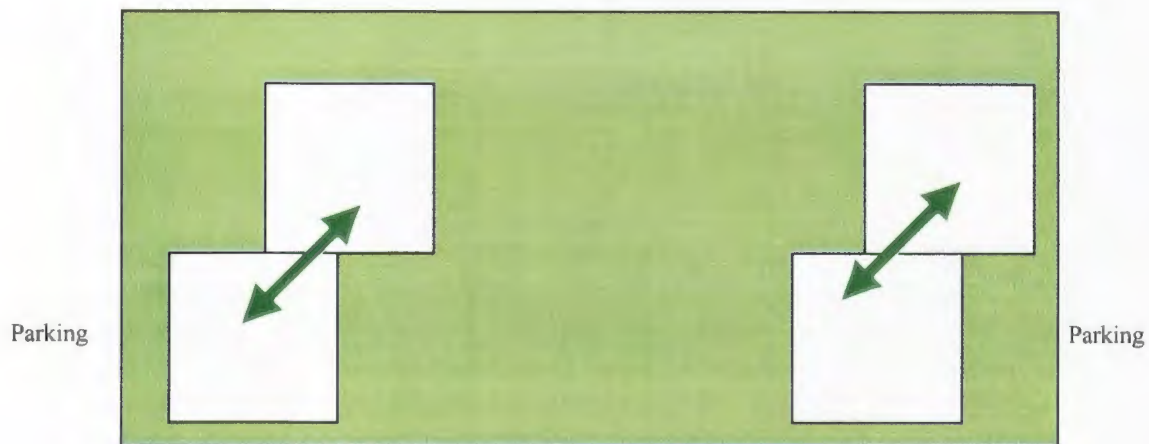
Connection between buildings

- Campus like design that people do not use cars to go from one building to another if possible
- Put parking to edge/ outer edge of building
- Combine the facilities that can be shared

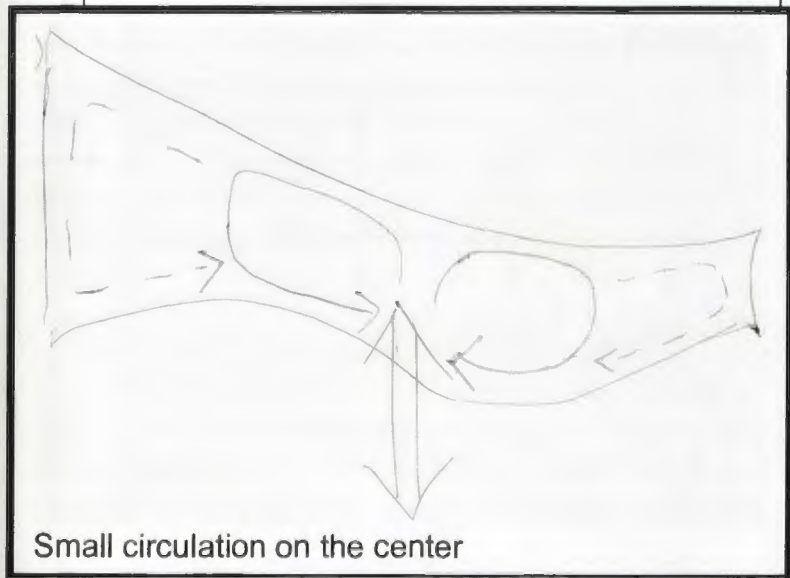
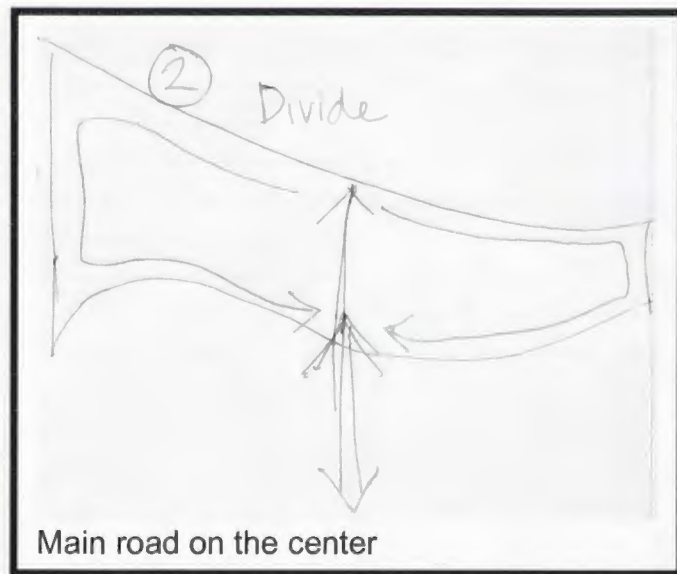
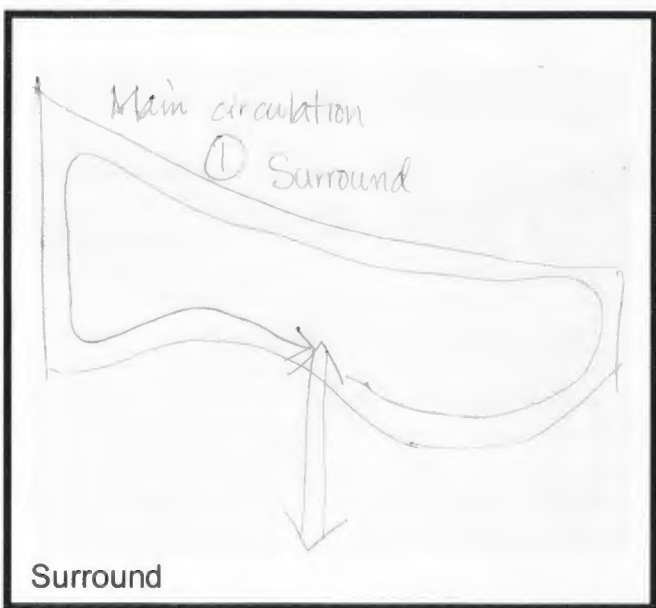
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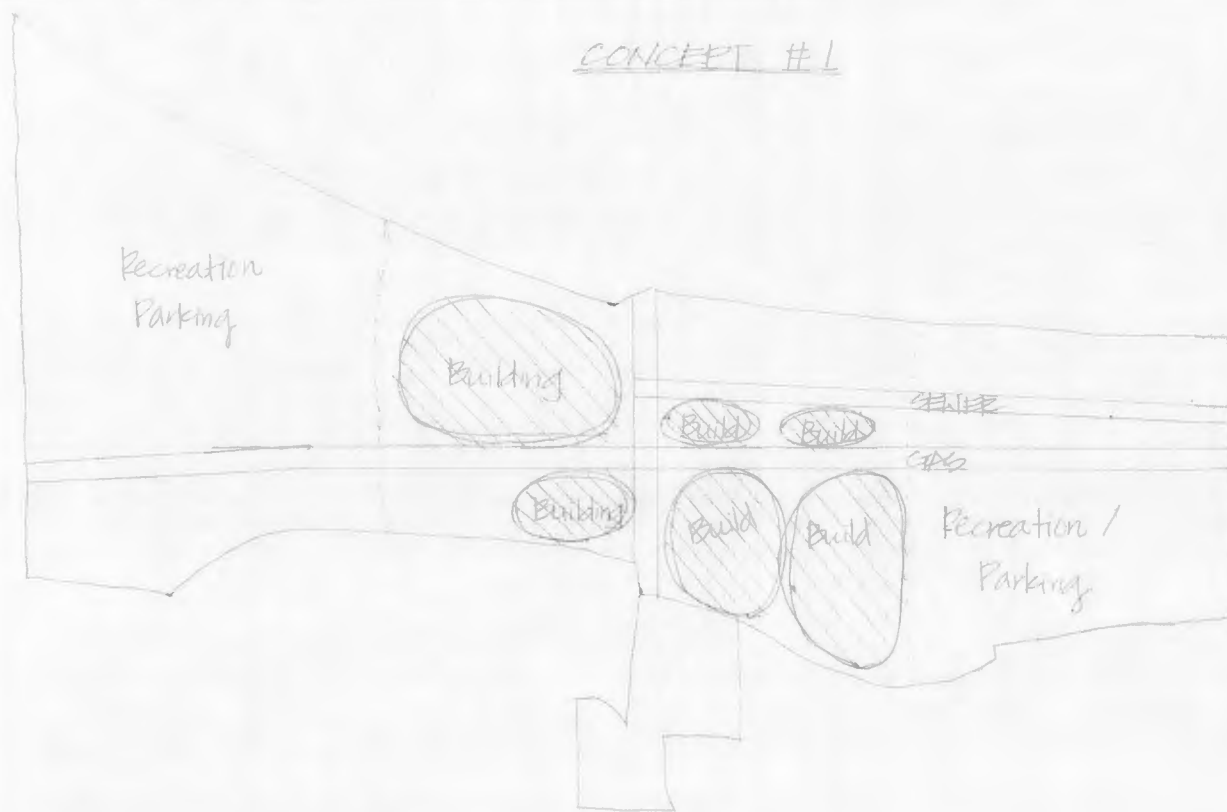


Analysis of possible circulations

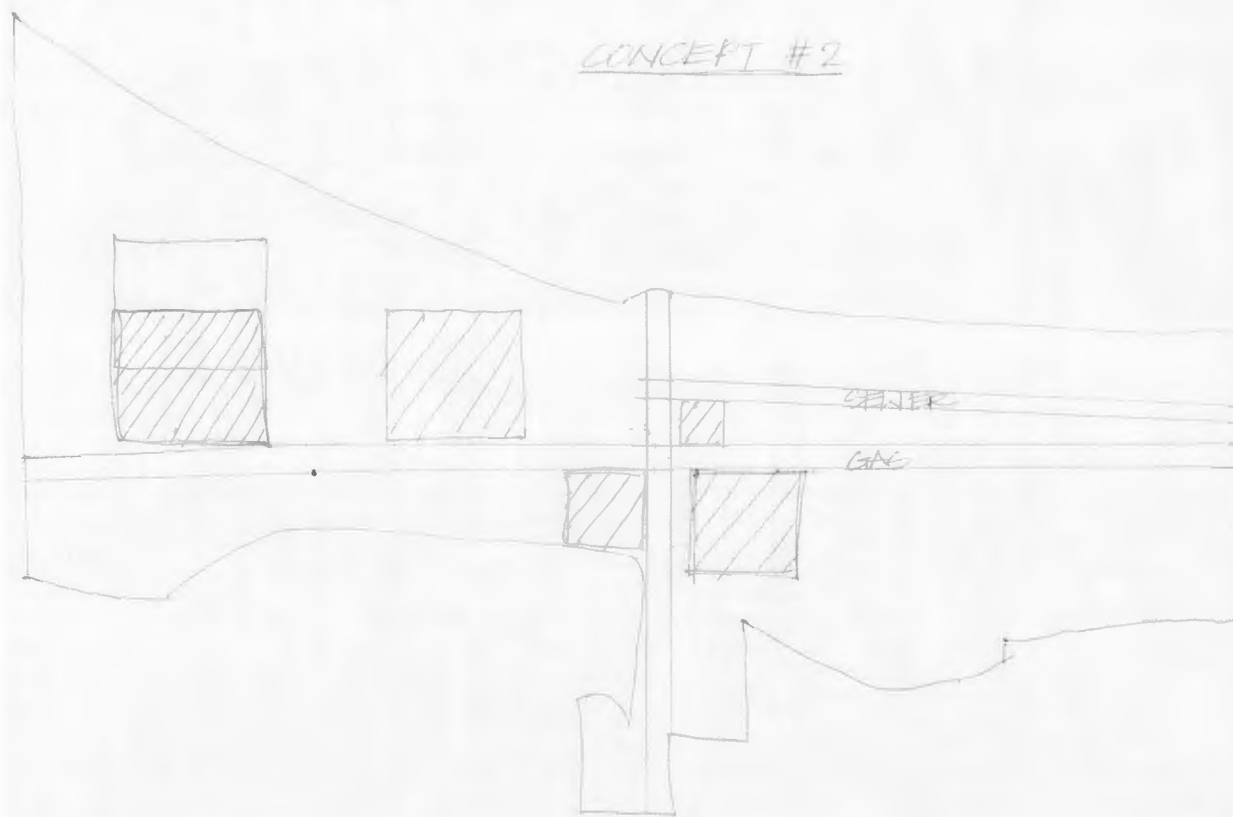


Formulating buildings (with existing gas line)

CONCEPT #1

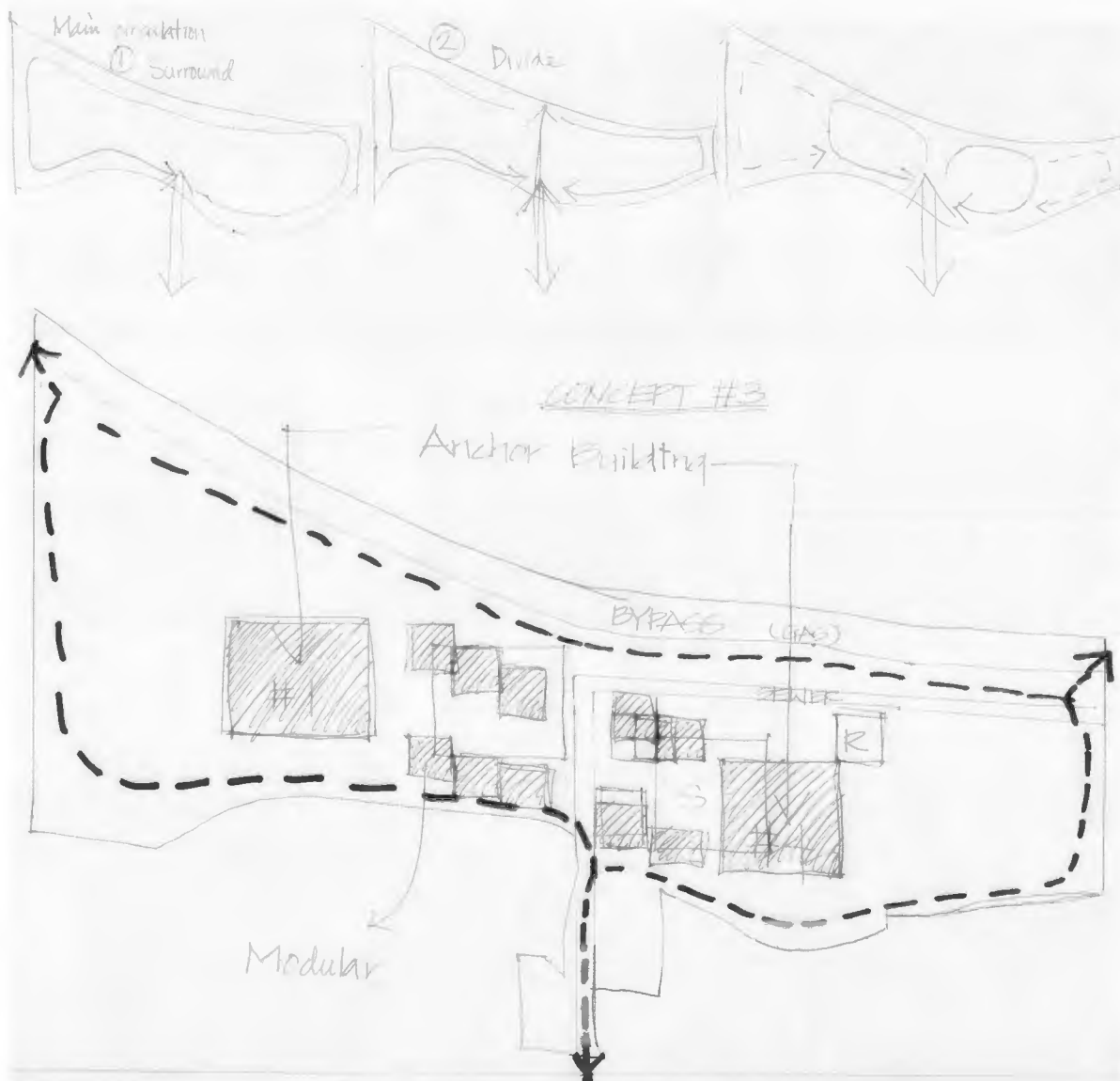


CONCEPT #2

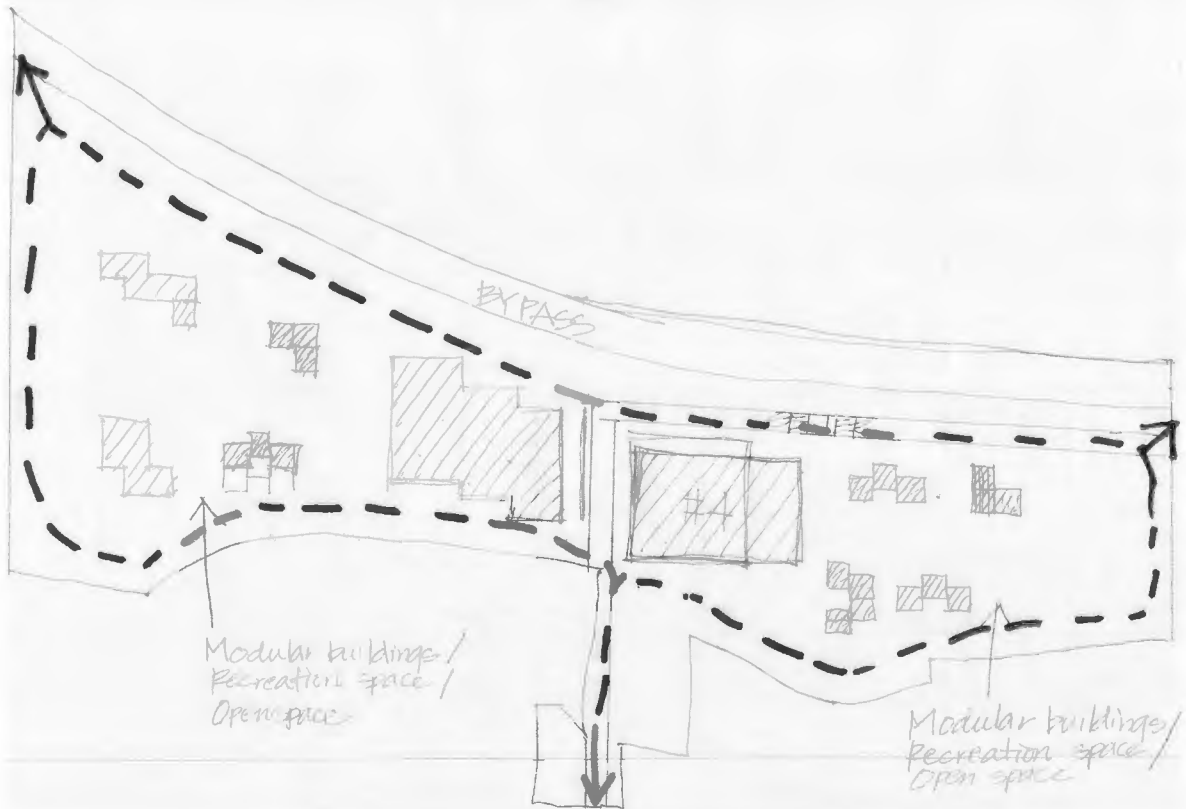
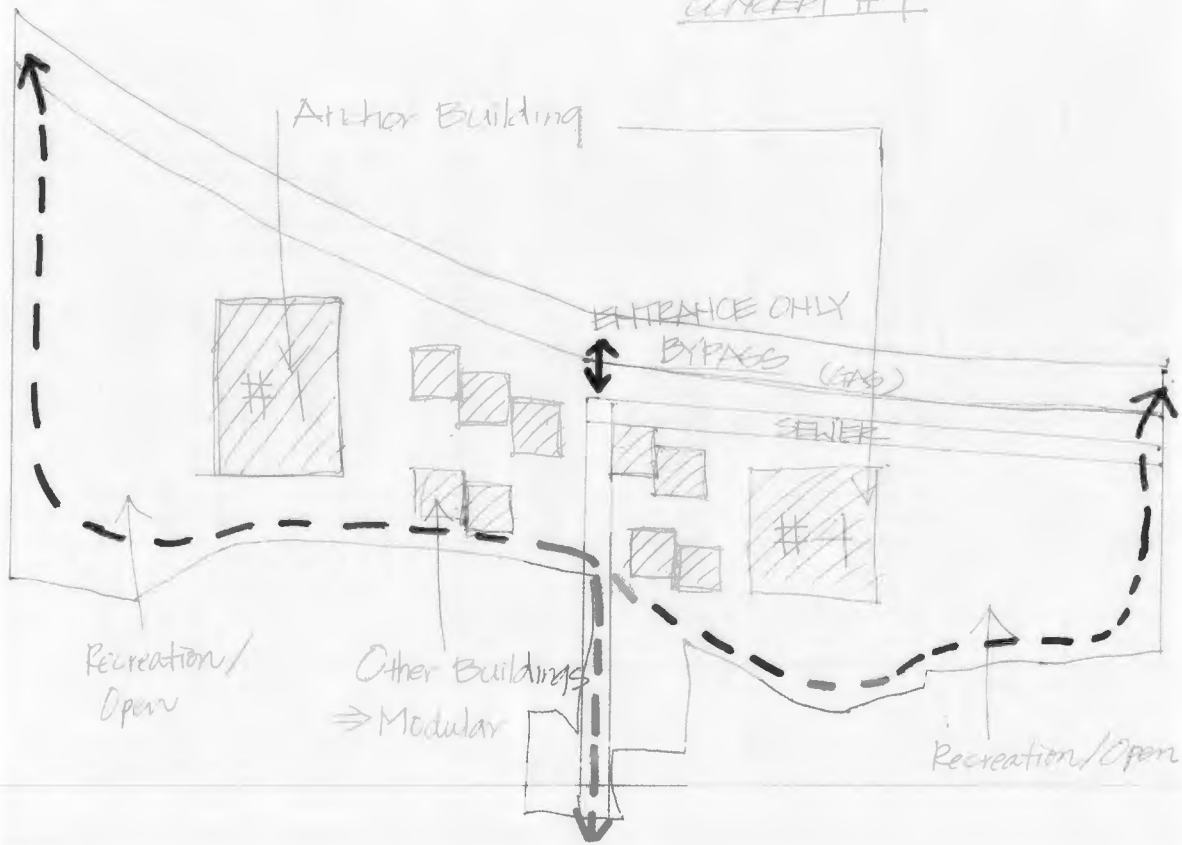


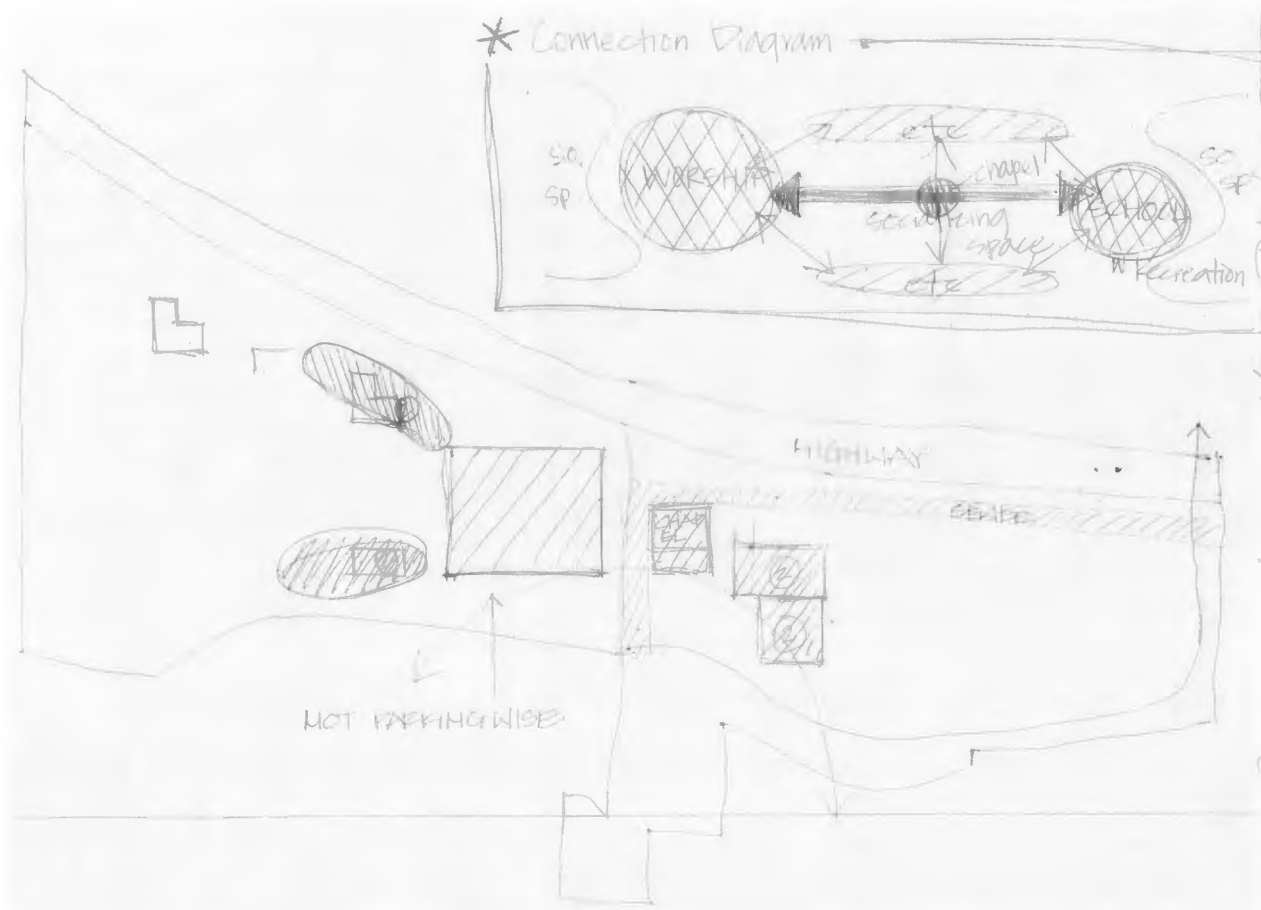
Formulating buildings (with proposed bypass)

- Excluding bypass make the gas line stay as it is, and reduces many possible building configurations.
- Although losing some portion of the site, moving gas line makes potential building development zone efficient and bigger, and providing new entrances for the site too.
- By having the proposed bypass, it creates alternate circulations.

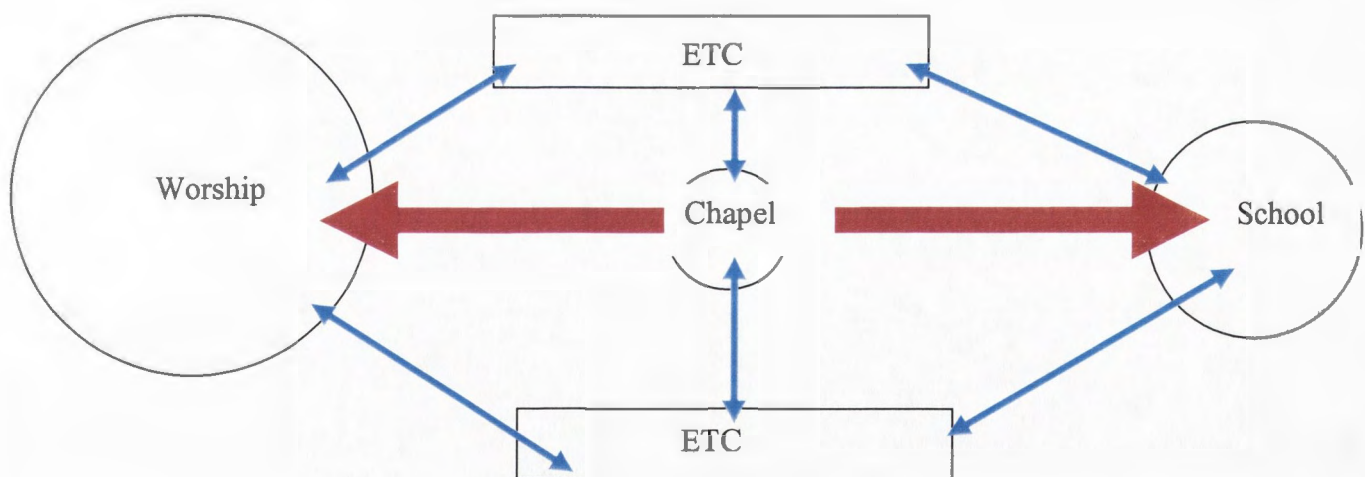


CONCEPT #4

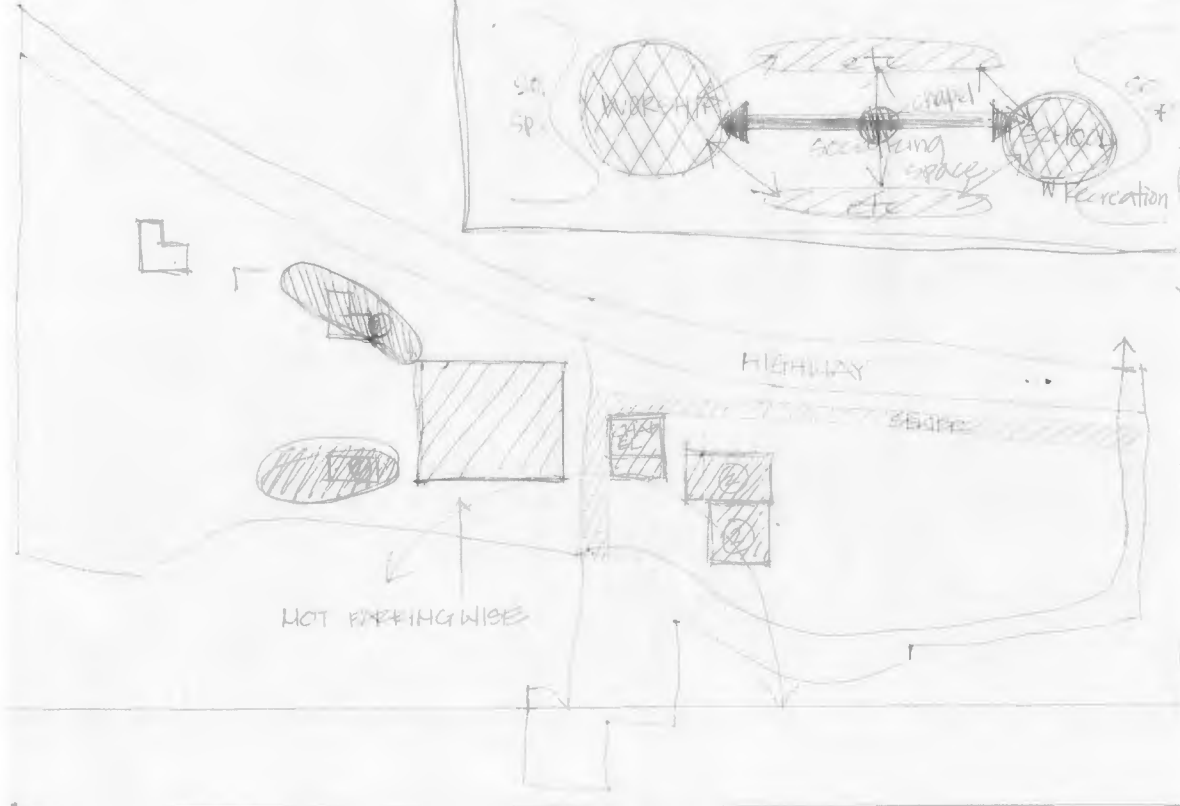
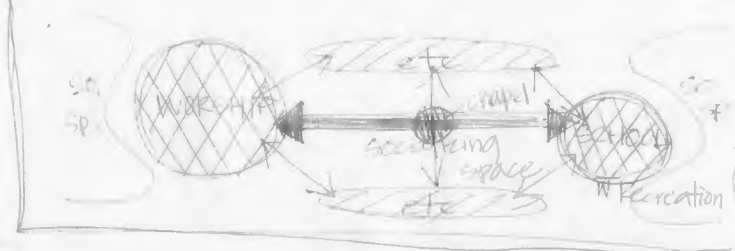




Parking



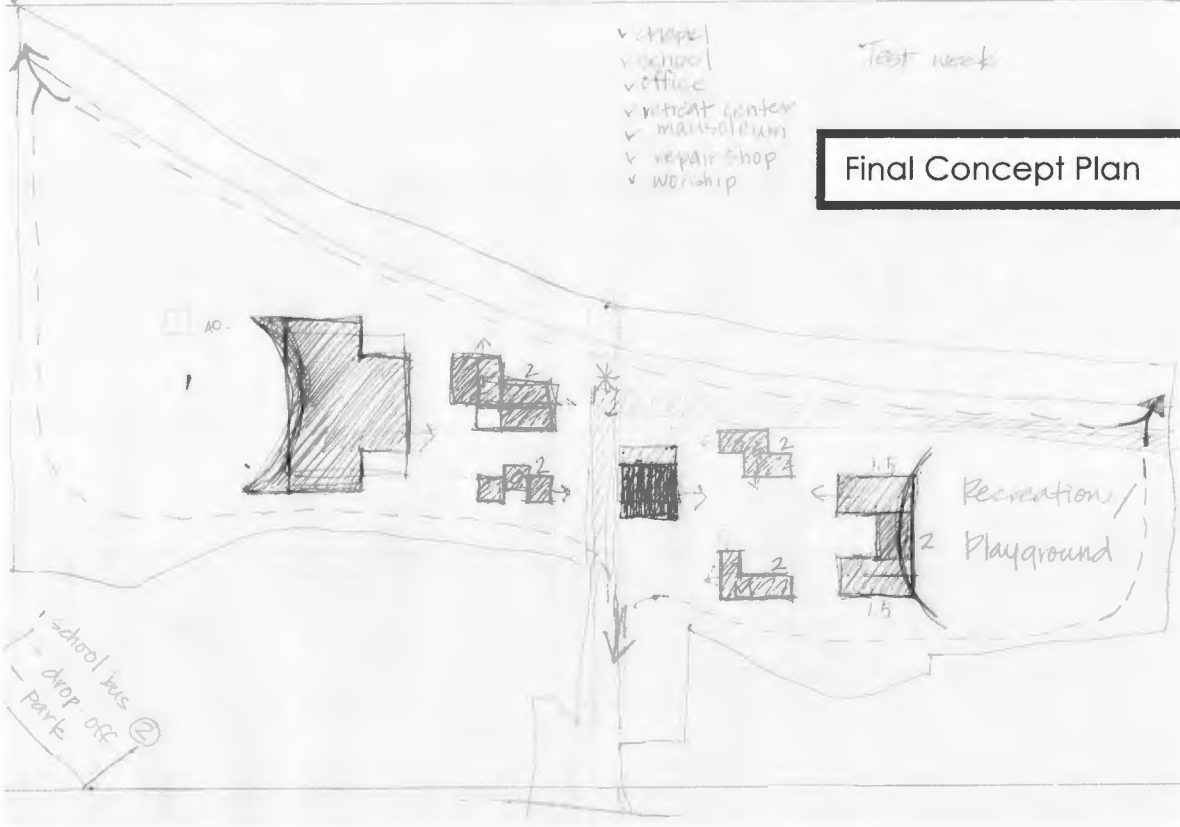
* Connection Diagram



- ✓ chapel
- ✓ school
- ✓ office
- ✓ retreat center
- ✓ main building
- ✓ repair shop
- ✓ workshop

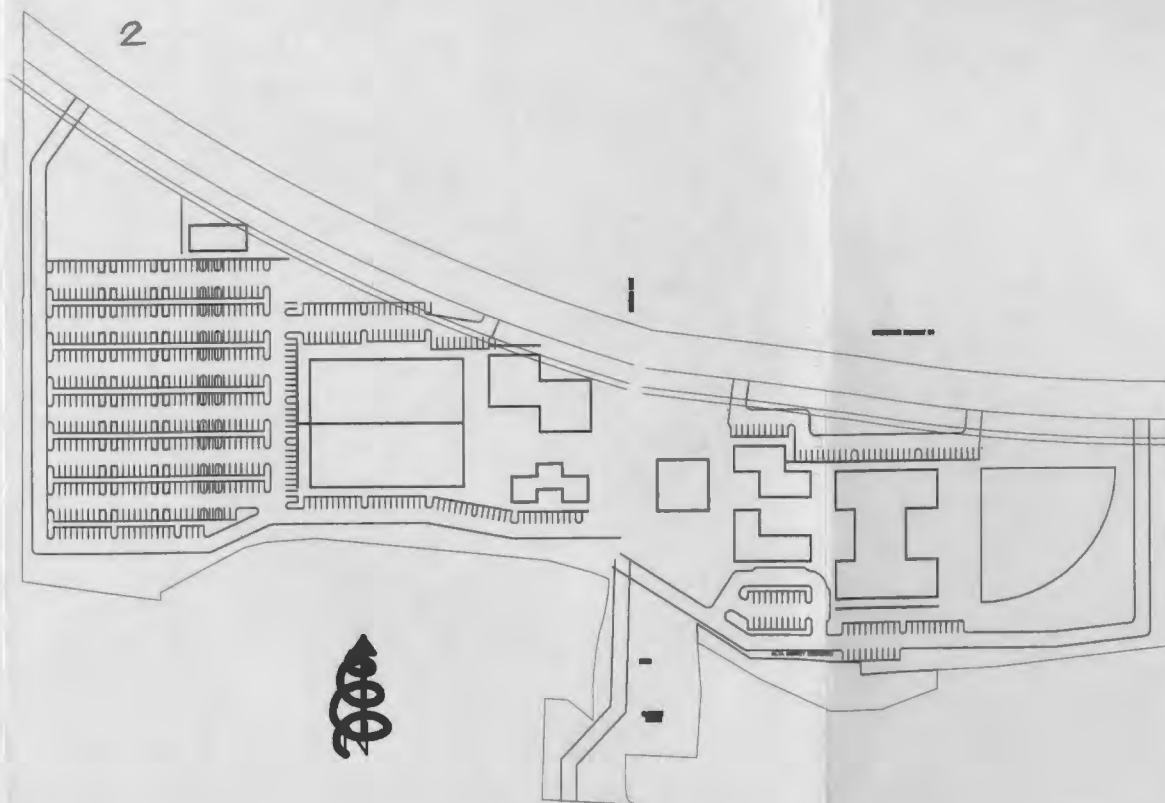
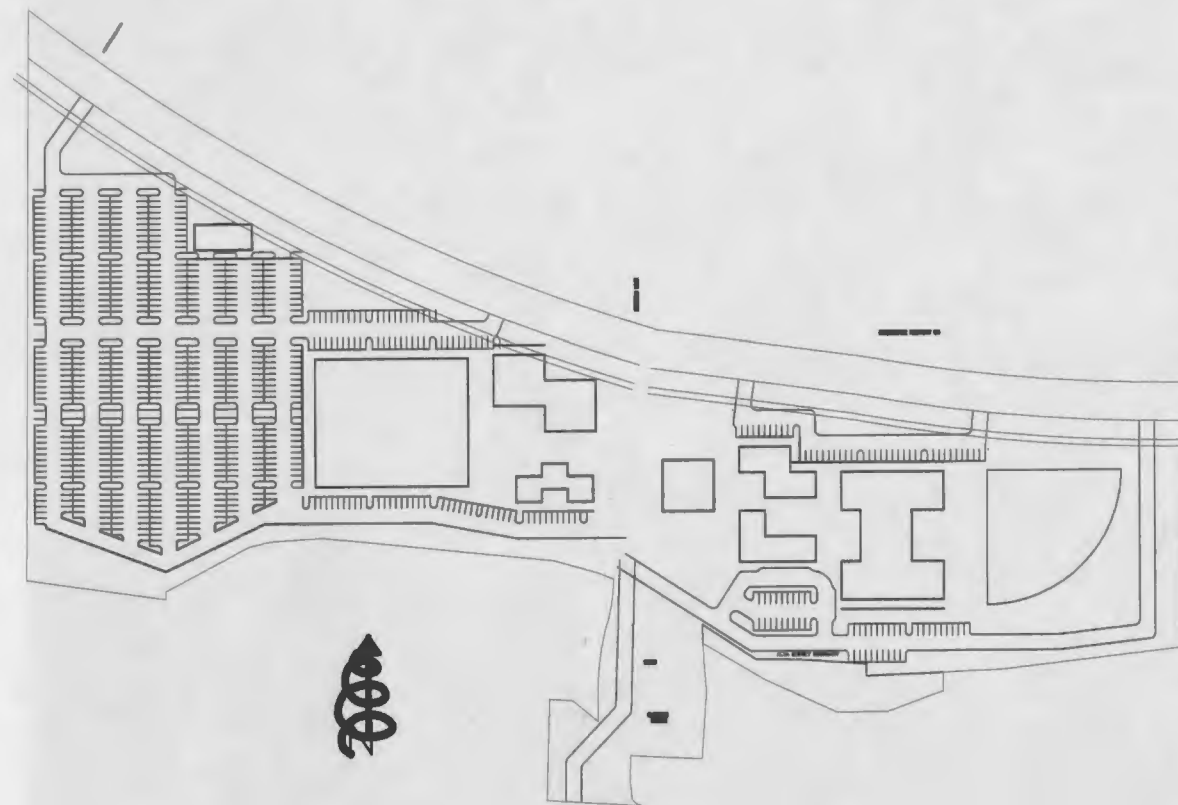
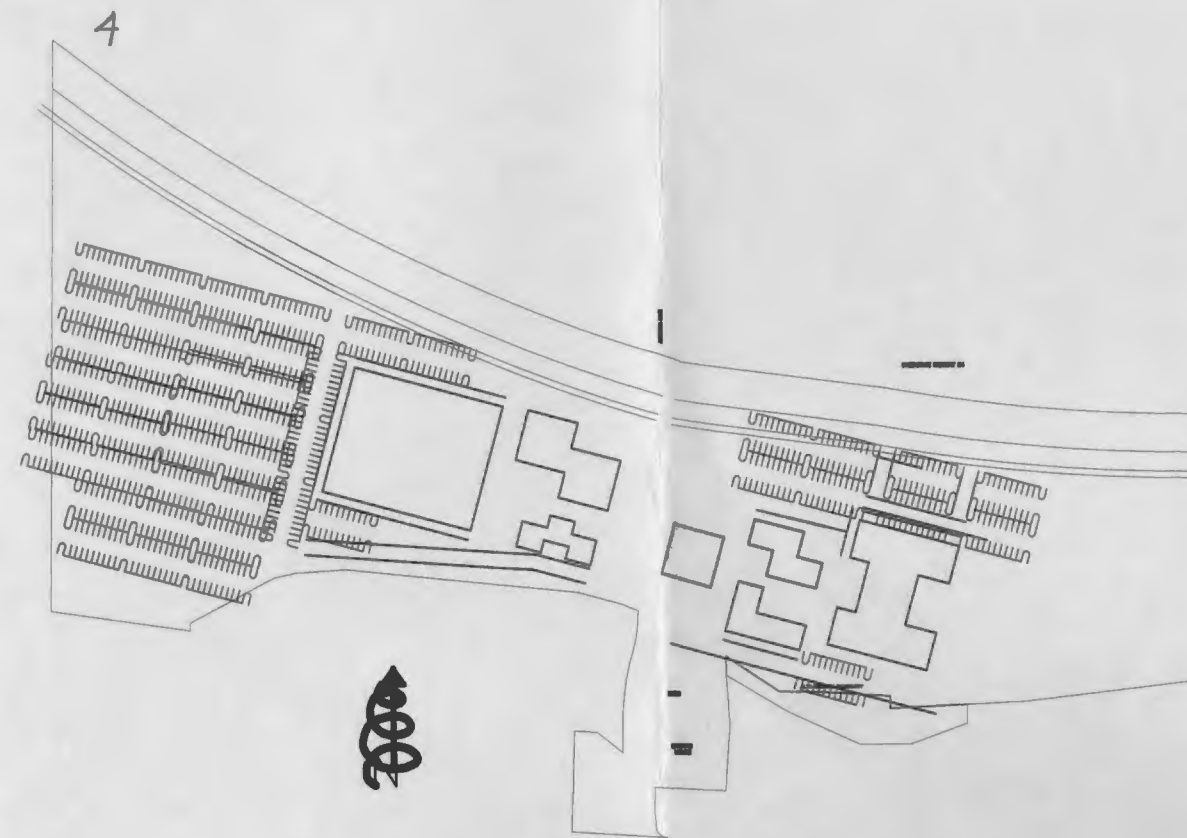
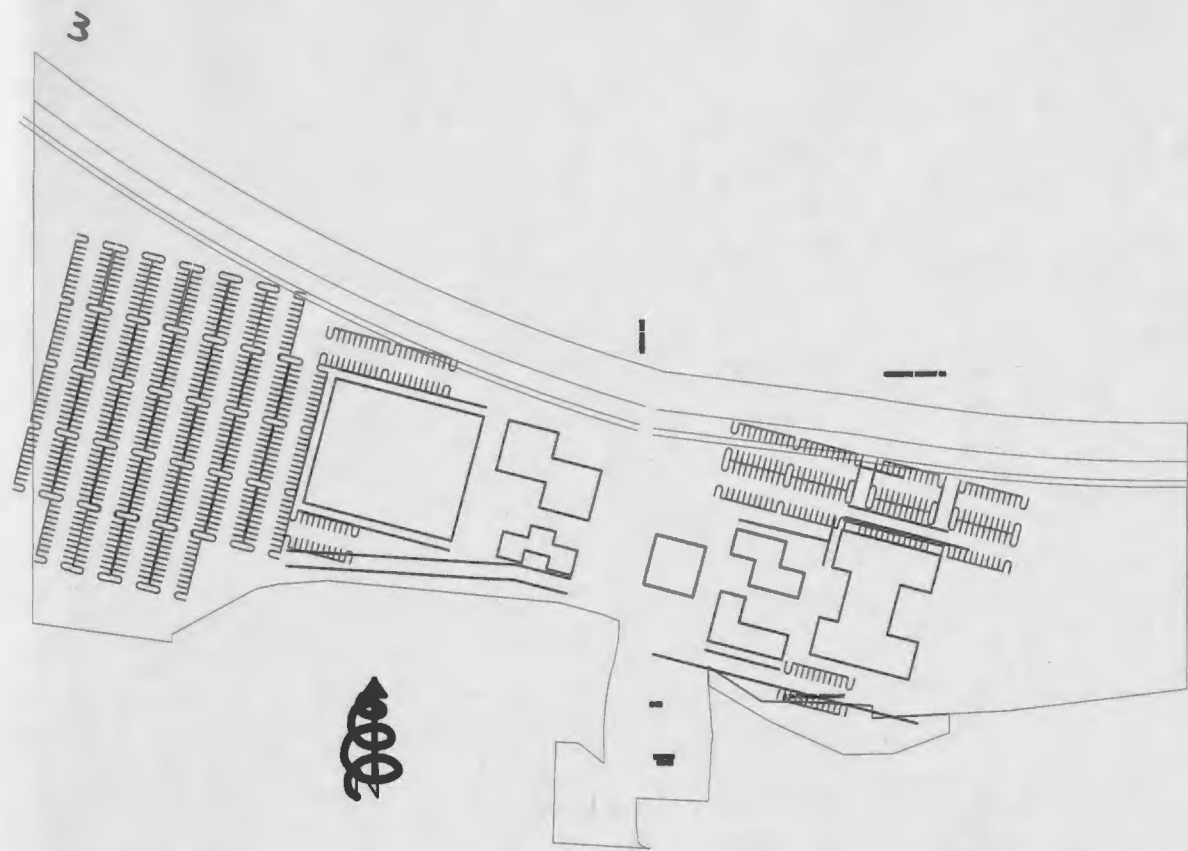
Test week

Final Concept Plan



Four alternatives

Finally, I have come up with two different building configurations and parking design. The first building arrangement is laid east-west, and the second is done along Interstate 84. To utilize and enforce the space, the first alternative has developed further.



Scale: 1"=300'

Final Design

Center Open Space

This is the special place to the site since many visitors will see this place at their arrival. It is necessary to be mostly open space to show the contrast to the chapel and other places within the site. Warm color annuals/perennials are suggested to plant show their welcoming atmosphere in front (southern site), and cool colors are recommended for relaxing atmosphere backside (northern site).

Place a special monument structure as proposed so that it can be seen not only from the Southern Main Entrance but also from Interstate 84. Providing pathway to the monument and seating around the monument offer a chance for visitors to experience this special space too.

West Plaza

Since West Plaza is surrounded by the Worship Complex and the Retreat Center, most visitors will spend their time at this space either passing by or socializing with others. This space is a nice to have external Narthex for socializing because it can offer various sizes of space defined by raised beds and plantings.

East Plaza

East Plaza is defined by school and offices. Compare to west plaza, it is assumed to be used during weekdays while school and office is open. People mainly utilize this space for relaxing and socializing purpose during the breaks and lunch time. The series of raised beds provide some gardening space, especially for small plants and herbs.

Transition

From plaza space to center open space, nice transition is necessary. Combination of stepping stones and groundcovers that are compatible with traffic and soil compaction (ex. Thyme) will make smooth transition both from hardscape to softscape and from softscape to hardscape.

United Methodist Church Regional Ministry Campus Master Plan





Chapel

*Center Open
Space*

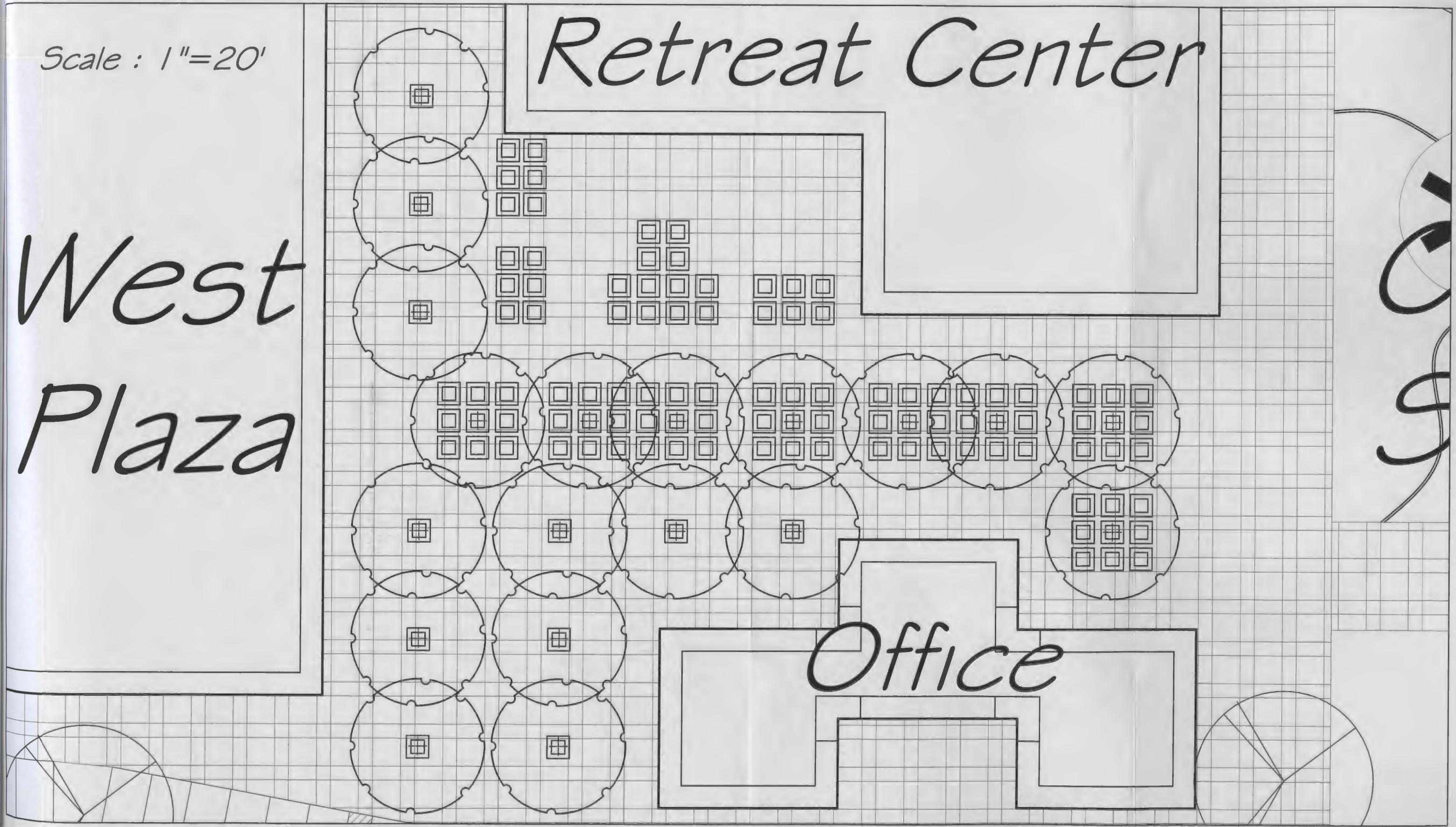
Scale : 1"=20'

Scale : 1"=20'

West
Plaza

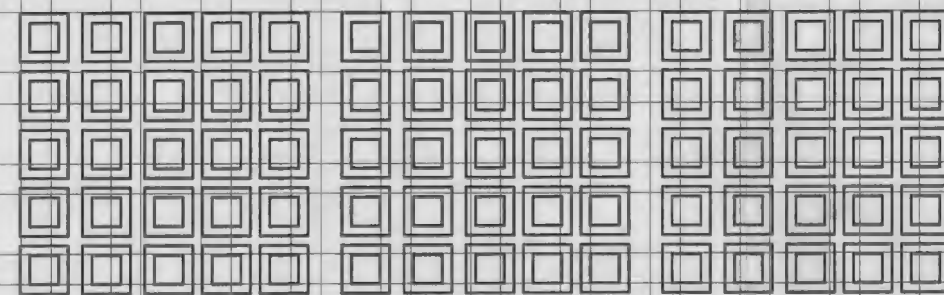
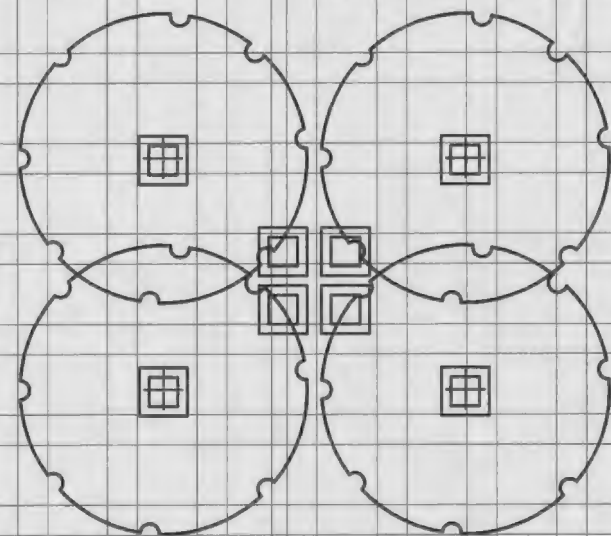
Retreat Center

Office



Mausoleum

Chapel



Office

Scale : 1"=20'

East

Plaza

Appendix A

Following are information and maps I got for this project. I also include a copy of master plan at the scale of 1" = 60', and a copy of detail design for west plaza, center open space, and east plaza at the scale of 1" = 20'.

top of iron pipe projecting 3 inches. Established by U.S. Geological Survey.

*OUTSIDE CORPORATE LIMITS.



SOUTH WEBER CITY
 1600 East - South Weber Dr.
 South Weber, Utah 84405

THIS LOW-MODERATE DENSITY RESIDENTIAL AREA
 MUST HAVE DIRECT ACCESS ONTO ROADS
 OTHER THAN 8650 S. IN ORDER TO BE
 DEVELOPED AT DENSITIES GREATER THAN
 VERY LOW RESIDENTIAL DENSITY.

OPERABLE UNIT 4
 BOUNDARIES ARE APPROXIMATE
 REFER TO CURRENT DATA

OPERABLE UNIT 2
 BOUNDARIES ARE APPROXIMATE
 REFER TO CURRENT DATA

OPERABLE UNIT 1
 BOUNDARIES ARE APPROXIMATE
 REFER TO CURRENT DATA

PROJECTED LAND USE MAP #6



SCALE 1" = 2000'

- | | |
|--|-------------------------------------|
| ■ VERY LOW DENSITY RESIDENTIAL | ■ LIGHT INDUSTRIAL |
| ■ LOW DENSITY RESIDENTIAL | ■ HEAVY INDUSTRIAL |
| ■ LOW MODERATE DENSITY RES. | ■ INSTITUTIONAL |
| ■ MODERATE DENSITY RESIDENTIAL | ■ RECREATION SPECIFIC SITES |
| ■ LOCAL ORIENTED COMMERCIAL | ✱ RECREATION GENERAL LOCATIONS |
| ■ HIGHWAY ORIENTED COMMERCIAL | ■ OPEN LANDS |
| ✱ HIGH DENSITY RESIDENTIAL GENERAL LOCATIONS | ▨ SENSITIVE LANDS LANDSLIDE HAZARD |
| 〰 VISUAL BUFFER | ▨ SENSITIVE LANDS STEEP SLOPES |
| | ▨ SENSITIVE LANDS HAZARDOUS WASTE |
| | ▨ SENSITIVE LANDS CRITICAL WETLANDS |

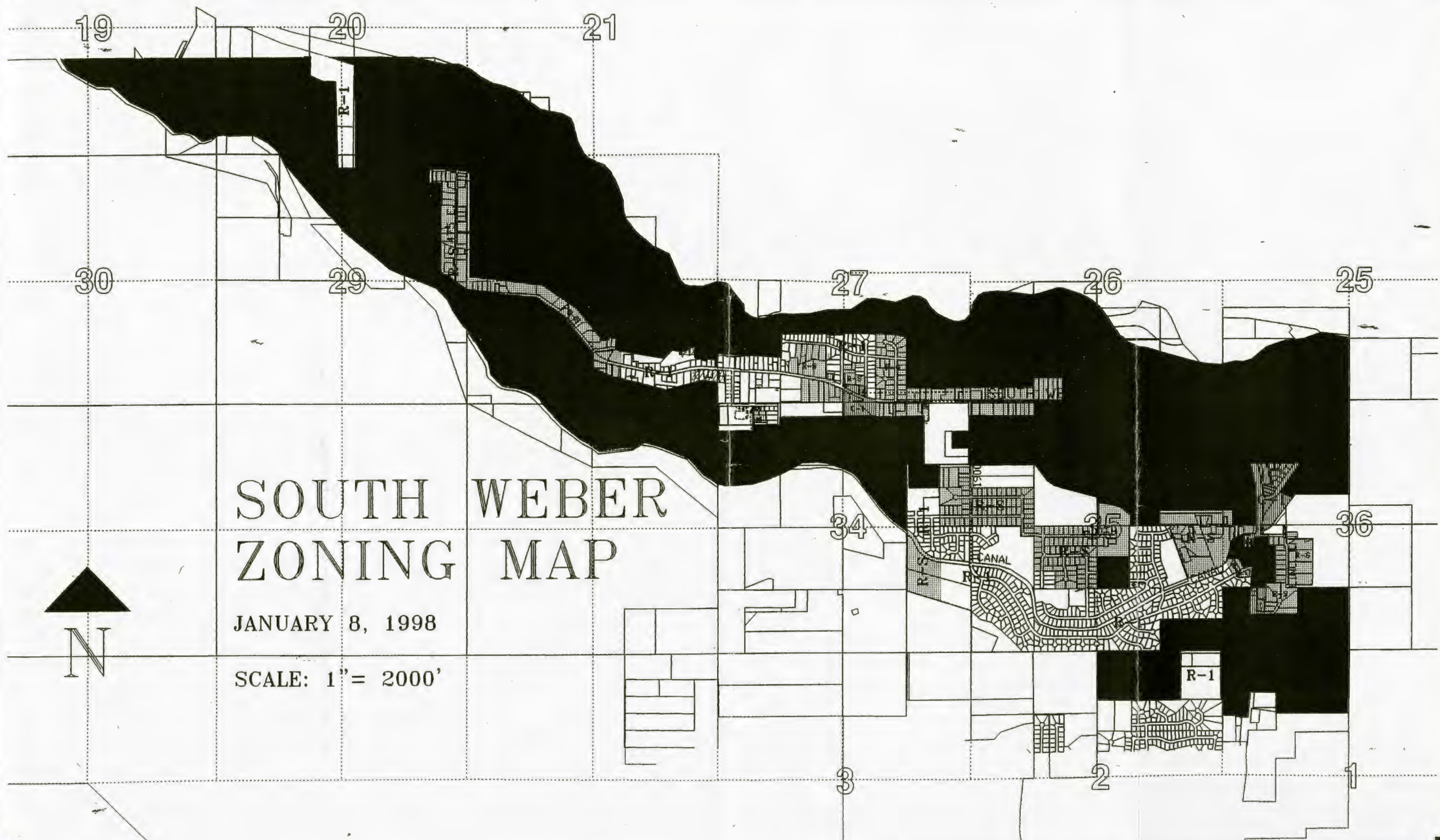
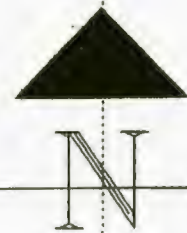
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65

SOUTH WEBER ZONING MAP

JANUARY 8, 1998

SCALE: 1" = 2000'



TRANSPORTATION
RECOMMENDATIONS
MAP #7

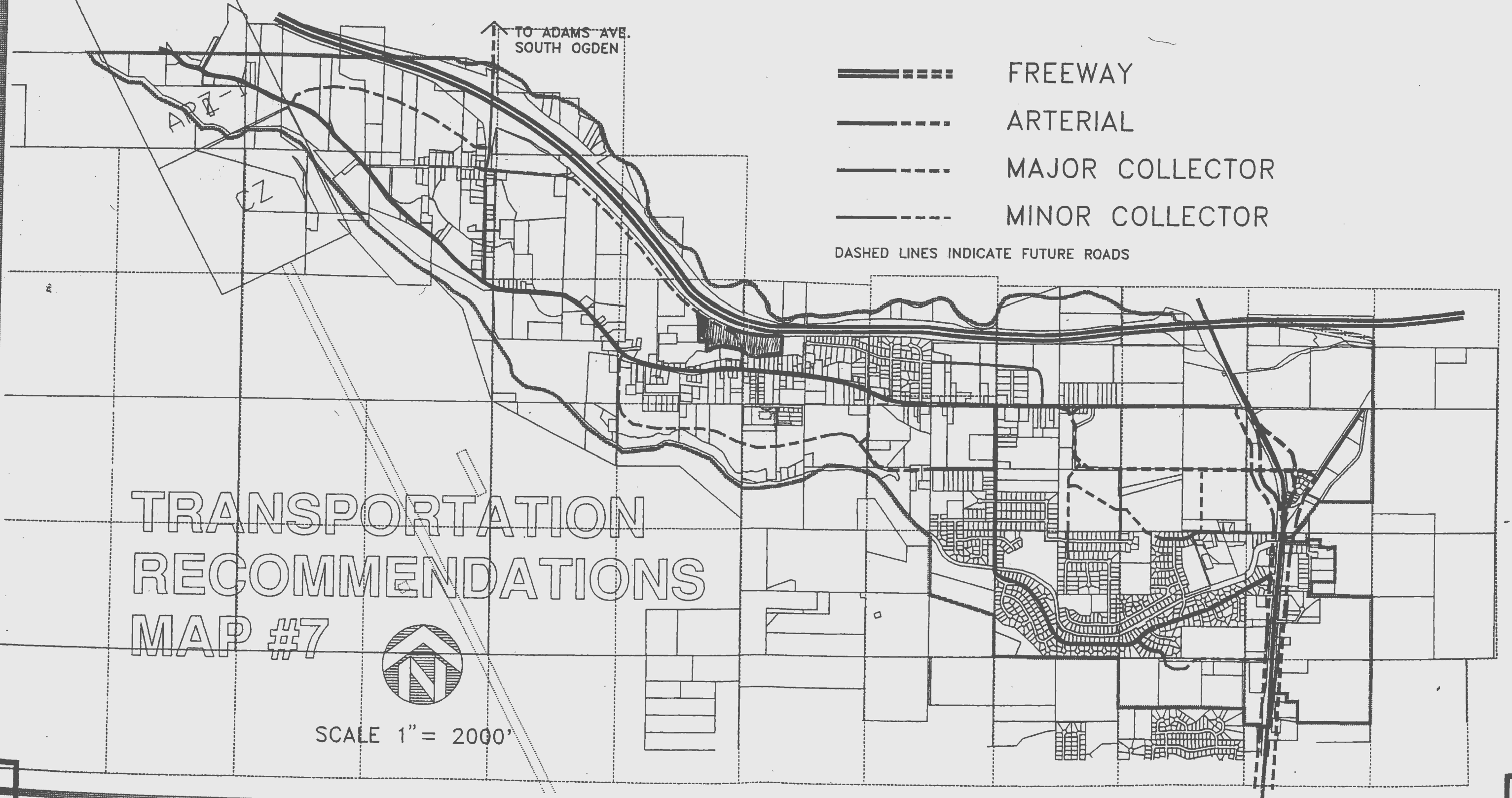


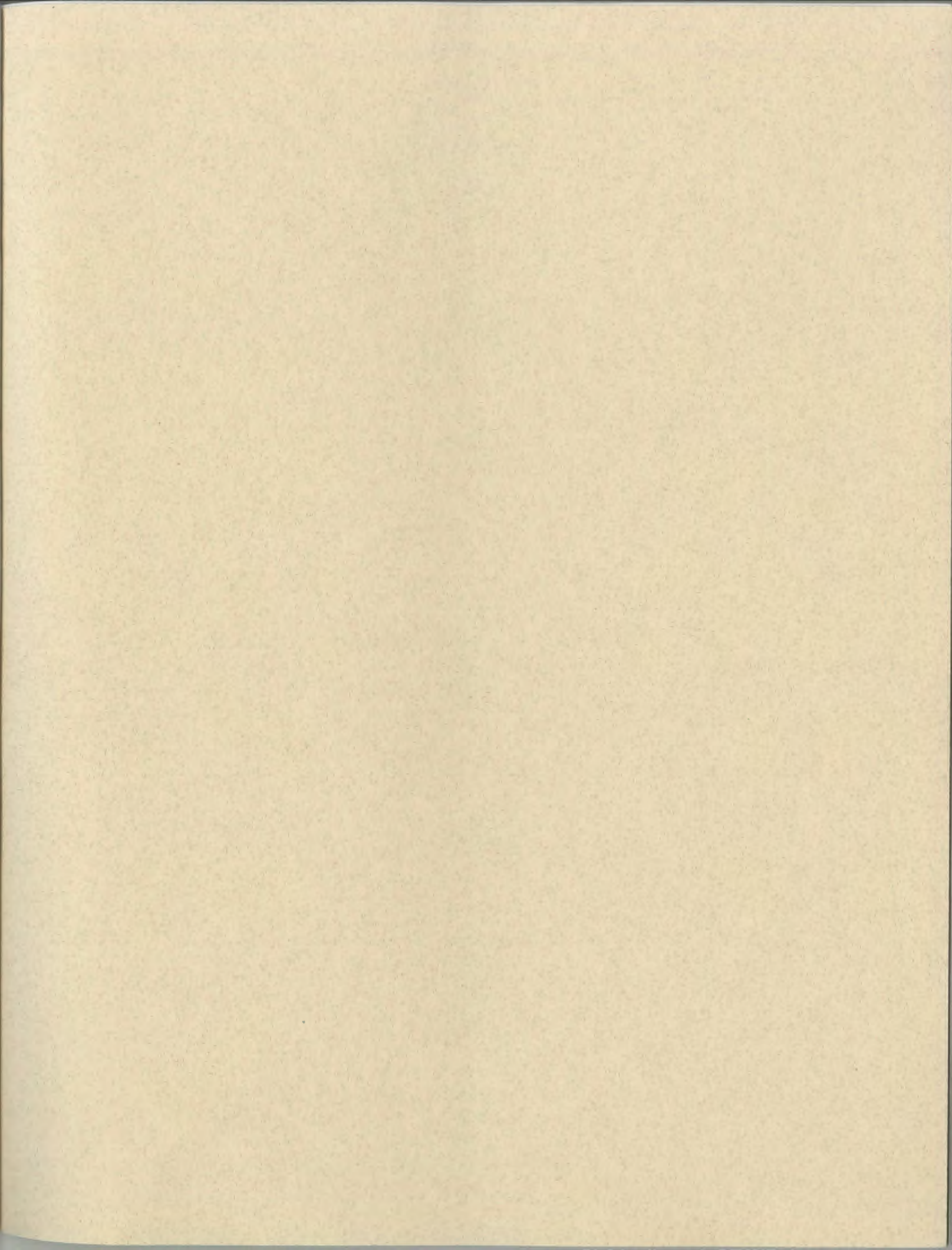
SCALE 1" = 2000'

TO ADAMS AVE.
SOUTH OGDEN

- ===== FREEWAY
- ARTERIAL
- MAJOR COLLECTOR
- MINOR COLLECTOR

DASHED LINES INDICATE FUTURE ROADS





Plant List

Prepared by:

Saori Endo

Please note this is only some example, and not complete one.

TREES

Large Deciduous Shade Tree

Acer platanoides

Acer rubrum

Ginko biloba

Gymnocladus dioica

Platanus x acerifolia

Quercus alba

Sophora japonica

Taxodium distichum

Zelkova serrata

Norway Maple

Red Maple

Ginko

Kentucky Coffeetree

London Planetree

White Oak

Japanese Pagodatree

Common Baldcypress

Japanese Zelkova

Medium Deciduous Ornamental Tree

*Betula occidentalis

Betula papyrifera

Betula pendula

Carpinus betulus

Koelreuteria paniculata

Salix matsudona 'Tortuosa'

Water Birch

Paper Birch

European Paper Birch

European Hornbeam

Goldenrain Tree

Tortuosa Willow

Small Deciduous Ornamental Tree

Crataegus spp.

Magnolia x soulangiana

Malus spp.

Prunus x cistena

Prunus serrulata

*Prunus virginiana

*Quercus gambelii

Syringa reticulata

Hawthorn

Saucer Magnolia

Flowering Crabapple

Purpleleaf Sand Cherry

Japanese Flowering Cherry

Chokecherry

Gambel's Oak

Japanese Tree Lilac

Large Evergreen Tree

*Abies concolor

*Picea engelmanni

Picea glauca

*Picea pungens

White Fir

Engelmann Spruce

White Fir

Colorado Blue Spruce

Small Evergreen Tree

*Juniperus monsperma
*Juniperus osteosperma
Juniperus scopulorum
Pinus edulis
Pinus flexilis

One Seed Juniper
Utah Juniper
Rocky Mountain Juniper
Pinyon Pine
Limber Pine

Street Trees

Platanus x acerifolia
Taxodium distichum
Zelkova serrata

London Planetree
Common Baldcypress
Japanese Zelkova

Tall Trees for Narrow Spaces

Carpinus betulus
*Juniperus scopulorum

European Hornbeam
Rocky Mountain Juniper

Utah Native Trees

*Abies concolor
*Abies lasiocarpa
*Acer glabrum
*Amelanchier alnifolia
*Betula occidentalis
*Juniperus monsperma
*Juniperus osteosperma
*Picea engelmanni
*Picea pungens
*Prunus virginiana
*Purshia mexicana
*Quercus gambelii

White Fir
Subalpine Fir
Rocky Mountain Maple
Serviceberry
Water Birch
One Seed Juniper
Utah Juniper
Engelmann Spruce
Colorado Blue Spruce
Chokecherry
Cliff – rose
Gambel's Oak

SHRUBS

Large Deciduous Shrub

*Amelanchier alnifolia
Euonymus alatus 'Compactus'
*Prunus virginiana
Philadelphus spp.
Syringa vulgaris

Serviceberry
Dwarf Burning Bush
Chokecherry
Mockorange
Common Lilac

Small Deciduous Shrub

*Arctostaphylos uva-ursi
*Cornus sericea
*Potentilla fruticosa
Rhododendron spp.
*Rosa woodsii
*Symphoricarpos oreophilus

Kinnikinnick
Red-Osier Dogwood
Cinquefoil Bush
Rhododendron
Wood's Rose
Mountain Snowberry

Semi-evergreen

*Chamaebatiaria millefolium
*Salvia dorrii

Fernbush
Dorr Sage

Large Evergreen Shrub

Pyracantha coccinea
Taxus x media
Viburnum x rhytidophylloides
Viburnum rhytidophyllum

Scarlet Firethorn
English-Japanese Yew
Lantanaphyllum Viburnum
Leatherleaf Viburnum

Small Evergreen Shrub

Juniperus horizontalis
*Mahonia repens
Taxus cuspidata

Horizontal Juniper
Creeping Oregon Grape
Japanese Yew

Broadleaf Evergreen Shrub

*Mahonia repens
Pyracantha coccinea
Viburnum x rhytidophylloides

Creeping Oregon Grape
Scarlet Firethorn
Lantanaphyllum Viburnum

Viburnum rhytidophyllum

Leatherleaf Viburnum

Shrub Requiring Shade

*Arctostaphylos uva-ursi

Buxus sempervirens

*Mahonia repens

*Paxistima myrsinites

Kinnikinnick

Common Boxwood

Creeping Oregon Grape

Mountain – lover

Shrub Suited for a Hedge

Buxus sempervirens

*Chamaebatiaria millefolium

Taxus cuspidata

Taxus x media

Common Boxwood

Fernbush

Japanese Yew

English-Japanese Yew

Utah Native Shrubs

*Amelanchier alnifolia

*Arctostaphylos patula

*Arctostaphylos uva-ursi

*Artemis frigida

*Atriplex canescens

*Brickellia microphylla

*Ceanothus fendleri

*Ceanothus velutinus

*Cercocarpus montanus

*Chamaebatiaria millefolium

*Cornus sericea

*Ephedra viridis

*Fallugia paradoxa

*Forestiera neomexicana

*Holodiscus discolor

*Holodiscus dumosus

*Juniperus monosperma

*Juniperus osteosperma

*Mahonia repens

*Paxistima myrsinites

Serviceberry

Greenleaf Manzanita

Kinnikinnick

Fringed Sagebrush

Four – wing Saltbrush

Rough Brickellbush

Mountain Sweet

Deer – brush

Alder – leaf Mountain Mahogany

Fernbush

Red-Osier Dogwood

Mormon Tree

Apache Plume

New Mexican Privet

Ocean Spray

Rockspirea

One Seed Juniper

Utah Juniper

Creeping Oregon Grape

Mountain – lover

**Potentilla fruticosa*
**Purshia mexicana*
**Purshia tridentata*
**Quercus gambelii*
**Quercus turbinella*
**Rhus aromatica*
**Rhus glabra*
**Ribes aureum*
**Ribes cereum*
**Rosa nutkana*
**Rosa woodsii*
**Salix arctica*
**Salix exigua*
**Salvia dorrii*
**Shepherdia argentea*
**Shepherdia canadensis*
**Symphoricarpos oreophilus*

Cinquefoil Bush
Cliff – rose
Antelope Bitterbrush
Gambel's Oak
Shrub Live Oak
Fragrant Sumac
Smooth Sumac
Golden Currant
Squaw Currant
Nootka Rose
Wood's Rose
Arctic Willow
Coyote Willow
Dorr Sage
Silver Buffaloberry
Soapberry
Mountain Snowberry

Annuals

Spring Blooming

Late Spring

Anthriscum majus

Snapdragon

Summer Blooming

Early Summer

Dyssodia tenuiloba

Dahlberg Daisy

Impatiens wallerana

Impatiens

Pelargonium x hortorum

Geranium

Petunia x hybrida

Petunia

Salvia

Blue Salvia

Zinnia elegans

Zinnia

Zinnia angustifolia

Narrowleaf Zinnia

Mid Summer

Canna x generalis

Canna

Tagetes erecta

American Marigold

PERENNIALS

Spring Blooming

Early Spring

Aubrieta deltoidea

Mid Spring

Euphorbia polychroma

Lathyrus brachycalyx

Late Spring

*Aquilegia caerulea

Aquilegia spp.

*Asclepias speciosa

*Asclepias tuberosa

Summer Blooming

Coreopsis grandiflora

Coreopsis verticillata

Geranium sanguineum

*Geranium viscosissimum

Heuchera hybrids

Iris hybrids

Nepeta x faassenii

*Penstemon eatonii

*Penstemon palmeri

Penstemon pinifolius

*Penstemon rostriflorus

*Penstemon sepalulus

*Penstemon strictus

*Penstemon utahensis

Saponaria ocymoides

Tanacetum coccineum

Early Summer

*Anaphalis margaritacea

Campanula carpatica

Centranthus ruber

Echinacea purpurea

False Rock Cress

Cushion Spurge

Rydberg Sweetpea

Rocky Mountain Columbine

Columbine

Milkweed

Butterflyweed

Coreopsis

Threadleaf Coreopsis

Bloody Cranesbill

Sticky Geranium

Coral Bells

Bearded Iris

Catmint

Eaton's Penstemon

Palmer's Penstemon

Pineleaf Penstemon

Bridges Penstemon

Littlecup Penstemon

Rocky Mountain Penstemon

Utah Penstemon

Rock Soapwort

Painted Daisy

Pearly Everlasting

Carpathian Harebell

Jupiter's Beard

Purple Coneflower

Erigonum brevicule
 *Gallardia aristata
 Gallardia x grandiflora
 Gaura lindheimerii
 Gypsophila repens 'Rosea'
 Hemerocallis spp.
 Lavendula angustifolia
 Leucanthemum x superbum
 Lupinus 'Russel Hybrid'
 Malva alcea
 Mirabilis multiflora
 *Monarda fistulosa
 *Oenothera biennis
 *Oenothera caespitosa
 Oenothera missouriensis
 Phlox paniculata
 Platycodon grandiflorus
 Ratibida columnaris
 *Ratibida columnifera
 Rudbeckia fulgida
 *Rudbeckia lacunata
 *Sphaeralcea grossulariifolia
 Stachys byzantina
 *Yucca angustissima
 *Yucca baccata
 Yucca filamentosa

Mid Summer

Alcea rosea
 *Epilobium angustifolium
 Erigeron flagellaris
 *Monardella odoratissima

Late Summer

*Antennaria microphylla
 Aster novibelgii

Shortstem Buckwheat
 Blanket Flower
 Blanket Flower
 Whirling butterflies
 Creeping Baby's Breath
 Daylily
 Lavender
 Shasta Daisy
 Lupine
 Hollyhock Mallow
 Wild Four O'Clock
 Beebalm
 Evening Primrose (Biennial)
 Evening Primrose
 Missouri Primrose
 Garden Phlox
 Balloon Flower
 Merican Hat
 Prairie Coneflower
 Black – eyed Susans
 Laceleaf Coneflower
 Globe Mallow
 Lamb's Ear
 Narrow – leaf Yucca
 Banana Yucca
 Yucca

Hollyhock
 Fireweed
 Trailing Fleabane
 Stinking horsemint

Rosy Pussytoes
 New York Aster

Hosta spp.
Physostegia virginiana
Sedum spectabile

Hosta
Obedient Plant
Autumn Joy Sedum

Fall Blooming

Agastache rupestris
Lavendula angustifolia

Agastache
Lavender

Fragrant Perennials

*Gaura lindheimeri
*Lathyrus brachycalyx
Lavendula angustifolia
*Oenothera caespitosa
*Penstemon palmeri

Whirling butterflies
Rydberg Sweetpea
Lavender
Evening Primrose
Palmer's Penstemon

Drought Tolerant Perennials

*Antennaria microphylla
*Anaphalis margaritacea
*Aquilegia caerulea
*Asclepias speciosa
*Asclepias tuberosa
*Atriplex canescens
*Epilobium angustifolium
*Erigeron flagellaris
*Erigonum brevicule
*Gallardia aristata
*Gaura lindheimeri
*Geranium viscosissimum
Lathyrus brachycalyx
*Mirabilis multiflora
*Monarda fistulosa
*Monardella odoratissima
*Oenothera caespitosa
*Penstemon eatonii

Rosy Pussytoes
Pearly Everlasting
Rocky Mountain Columbine
Milkweed
Butterflyweed
Four – wing Saltbrush
Fireweed
Trailing Fleabane
Shortstem Buckwheat
Blanket Flower
Whirling butterflies
Sticky Geranium
Rydberg Sweetpea
Wild Four O'Clock
Beebalm
Stinking horsemint
Evening Primrose
Eaton's Penstemon

*Penstemon palmeri	Palmer's Penstemon
Penstemon pinifolius	Pineleaf Penstemon
*Penstemon rostriflorus	Bridges Penstemon
*Penstemon sepalulus	Littlecup Penstemon
*Penstemon strictus	Rocky Mountain Penstemon
*Penstemon utahensis	Utah Penstemon
*Sphaeralcea grossulariifolia	Globe Mallow
*Yucca angustissima	Narrow – leaf Yucca
*Yucca baccata	Banana Yucca
Yucca filamentosa	Yucca

HERBS

Allium schoenoprasum

Aloysia triphylla

Anethum graveolens

Artemisia dracunculus

Cerastium tomentosum

Coriander sativum

Cymbopogon citratus

Foeniculum vulgare

Laurus nobilis

Lavendula angustifolia

Melissa officinalis

Mentha

Ocimum basilicum

Origanum vulgare

Petroselinum crispum

Rosmarinus officinalis

Salvia elegans

Salvia officinalis

Satureja montana

Thymus spp.

Thymus serpyllum

Chives

Lemon Verbena

Dill

French Tarragon

Snow in summer

Cilantro

Lemon Grass

Fennel

Bay Laurel

Lavender

Lemmon Balm

Mint

Basil

Oregano

Parsley

Rosemary

Pineapple Sage

Sage

Winter Savory

Thyme

Mother-of-Thyme, Creeping Thyme

Note: These plants must be wintered indoors in Utah

GROUNDCOVERS

Requiring Sun

**Antennaria microphylla*

Thymus serpyllum

Rosy Pussytoes

Mother-of-Thyme, Creeping Thyme

Requiring Shade

**Geranium viscosissimum*

Vinca Minor

Sticky Purple Geranium

Common Periwinkle

All

**Mahonia repens*

Creeping Oregon Grape

BULBS

Crocus vernus

Hemerocalis spp.

Hyacinthus orientalis

Iris spp.

Muscari spp.

Narcissus spp.

Tulipa spp.

Dutch Crocus

Daylily

Hyacinth

Iris

Grape Hyacinth

Daffodils

Tulip

VINES

Campsis radicans

Parthenocissus quinquefolia

Parthenocissus tricuspidata

Common Trumpetcreeper

Virginia Creeper

Boston Ivy

ORNAMENTAL GRASSES

< 1'

Festuca cinerea 'Elijah Blue'

Elijah Blue Fescue

> 1'

**Andropogon gerardii*

Big Bluestem

Briza media

Rattlesnake Grass

Brouteloua gracilis

Blue Grama Grass

Calamagrostis x acutiflora 'Karl Foerster'

Forester's Feather Reed Grass

Calamagrostis brachytricha

Korean Feather Reed Grass

Carex elata 'Aurea'

Golden Sedge

Chasmanthium latifolium

Northern Sea Oats

**Deschampsia flexuosa*

Crinkled Hairgrass

Erianthus ravenne

Hardy Plume Grass

Festuca mairei

Meyer's Fescue

Festuca 'Blau Silber'

Blue Silver Fescue

Helictorichon sempervirens

Blue Oat Grass

Hakonechloa macra

Japanese Forest Grass

Imperata cylindrical 'Red Baron'

Japanese Blood Grass

Leymus cinereus

Great Basin Wild Rye

Miscanthus sinensis 'Adagio'

Adagio Maiden Grass

Miscanthus sinensis 'Morning Light'

Morning Light Maiden Grass

Miscanthus sinensis 'Purpurascens'

Purple maiden Grass

Miscanthus sinensis 'Stictus'

Porcupine Grass

Miscanthus sinensis 'Zebrinus'

Zebra Grass

Panicum virgatum 'Heavy Metal'

Heavy Metal Switch Grass

Pennisetum alopecuroides 'Hmeln'

Dwarf Fountain Grass

Pennisetum alopecuroides

Fountain Grass

Pennisetum setaceum

Annual Fountain Grass

Phalaris arundinacea var. *picta*

variegated Ribbon Grass

Saccharum rayennae

Hardy Pampas Grass / Ravenna Grass

**Schizachyrium scoparium*

Little Bluegrass

**Stipa hymenoides*

Indian Rice Grass

TURFGRASS

Agropyrum cristatum

Agrostis stolonifera

Buchloe dactyloides

Festca arundinacea

Festuca brevipila

Festuca rubra

Festuca rubra spp. *Fallax*

Lolium perenne

Poa annua

Poa pratensis

Crested Wheatgrass

Creeping Bentgrass

Buffalograss

Tall Fescue

Hard Fescue (Fine Leaf Fescue)

Creeping Red Fescue (Fine Leaf Fescue)

Chewings Fescue (Fine Leaf Fescue)

Perennial Ryegrass

Annual Bluegrass

Kentucky Bluegrass

Drought Tolerant Plants

Trees

**Acer grandidentatum*
Gymnocladus dioica
Koeleria paniculata
**Pinus aristata*
**Pinus flexilis*
**Pinus ponderosa*

Bigtooth Maple
Kentucky Coffee Tree
Goldenrain Tree
Bristlecone Pine
Limber Pine
Ponderosa Pine

Shrubs

**Amelanchier alnifolia*
**Cercocarpus ledifolius*
**Chamaebatiaria millefolium*
**Chrysothamnus nauseosus*
Fallugia paradoxa
**Juniperus scopulorum*
**Mahonia repens*
Prunus besseyi
**Rhus trilobata*

Saskatoon Serviceberry
Mountain Mahogany
Fernbush
Rabbitbrush
Apache Plume
Sky Rocket Juniper
Creeping Oregon Grape
Western Sand Cherry
Skunkbrush

Grasses

**Bouteloua gracilis*
**Deschampsia flexuosa*
Festuca mairei
Helictorichon sempervirens
**Schizachyrium scoparium*
**Stipa hymenoides*

Blue Grama Grass
Crinkled Hairgrass
Meyer's Fescue
Blue Oat Grass
Little Bluegrass
Indian Rice Grass

Perennials

Agastache rupestris
Berlandiera lyrata
Callirhoe involucrata
Gaura lindheimeri
Gazania 'Colorado Gold'
**Mirabilis multiflora*

Rootbeer Agastache
Chocolate Flower
Winecups
Gaura
Colorado Gold Gazania
Wild Four O'Clocks

**Oenothera caespitosa*

**Penstemon* spp.

Perovskia atriplicifolia

White Evening Primrose

Penstemon

Russian Sage

PLANTS FOR STEEP SLOPES – EROSION CONTROL

Groundcovers

Arctostaphylos uva-ursi

Cerastium tomentosum

Euonymus fortunei

Lonicera japonica 'Haliana'

**Mahonia repens*

Vinca minor

Tanacetum densum

Kinnikinnick – Bearberry

Snow in summer

Wintercreeper

Hall's Honeysuckle

Creeping Oregon Grape

Common Periwinkle

Partridge Feather

Shrubs

Cotoneaster divaricatus

Cercocarpus ledifolius

Chrysothamnus nauseosus

Fallugia paradoxa

Juniperus horirontalis

Rhus trilobata

Rosa woodsii

Symphoricarpus x chenanltii

Spreading Cotoneaster

Curl – leaf Mountain Mahogany

Rubber Rabbitbrush

Apache Plume

Creeping Juniper

Tree – leaf Sumac

Woods Rose

Chenault Coralberry

Grasses

Agropyron smithii

Buchloe dactyloides

Bouteloua gracilis

Western Wheatgrass

Baffalo Grass

Blue Gramma Grass

Perennials and Bulbs

Oenothera missouriensis

Aurinia saxatilis

Ozark Sundrop

Basket of Gold

Bulbs

Crocus vernus

Hemerocalis spp.

Narcissus

Dutch Crocus

Daylily

Daffodils

DEER RESISTANT PLANTS

Trees

Amelanchier alnifolia
Artemisia spp.
Atriplex canescens
Berberis repens
Chrysothamnus spp.
Cowania mexicana
Ceratoides lanata
Fallugia paradoxa
Pachystima myrsinites
Prunus virginiana

Saskatoon Serviceberry
Sagebrush
Fourwing Saltbrush
Oregongrape
Rabbitbrush
Cliff rose
Winterfat
Apache Plume
Myrtle Pachystima
Chokecherry

Shrubs

Purshia tridentate
Quercus gambelii
Rhus glabra
Rhus trilobata
Ribes aureum
Rosa woodsii

Antelope Bitterbrush
Gamble Oak
Smooth Sumac
Skunkbush Sumac
Golden currant
Woods Rose

Flowers/Vines

Rubus stigosus
Sambucus caerulea
Symphoricarpos spp.

Western Red Paspberry
Blueberry Elder
Snowberry

PLANTS FOR HOT DRY SUNNY PARK STRIPS

Achillea ageratifolia
Achillea lanulosa
Achillea millefolium
Aechionema schistosum
Anacylus depressus
Antennaria rosea
 **Antennaria microphylla*
Anthemis biebersteiniana
Arenaria macradenia
Arenaria montana
Artemisia frigida
Artemisia stelleriana
Buchloe dactyloides
Bouteloua gracilis
Calliehor grandifolia
 **Chamaebatiaria millefolium*
Coreopsis 'Moonbeam'
Delosperma cooperi
Delosperma nubigeum
 **Erigonum brevicule*
Eriogonum umbellatum
Euphorbia polychroma
Geranium sanguineum
Globularia cordifolia
Helianthemum nummularium

Hymenoxys scaposa
Lathyrus brachycalyx
Lavandula angustifolia 'Nara'
Marrubium rotundifolium
Melampodium leucanthum
Mirabilis multiflora

Greek Yarrow
 White Yarrow (mow)
 Yarrow (mow)
 Persian Rock Cress
 Mt. Atlas Daisy
 Pink Pussy Toes
 Rosy Pussytoes
 Dwarf Marguerite Daisy
 Shrubby Sandwort
 Montana Sandwort
 Fringed Sage
 Silver Brocade
 Baffalo Grass
 Blue Gramma Grass
 Poppy Mallow
 Fernbush
 Moonbeam
 Hardy Pink Ice Plant
 Hardy Yellow Ice Plant
 Shortstem Buckwheat
 Sulfur Flower
 Cushion Euphorbia
 Bloody Cranesbill
 Leather Leaf Powder Puff
 Yellow Rock Rose
 Orange Rock Rose
 Red Rock Rose
 Peach Rock Rose
 Perkysue
 Rydberg Sweetpea
 Dwarf Lavender
 Silver Marrubium
 Blackfoot Daisy
 Wild Four O'Clock

**Quercus gambelii*
Sedum spurium mix
Tanacetum densum
Tanacetum niveum
Taxodium distichum
Teucrium aroanum
Teucrium chamaedrys
Thymus necceffi
Thymus 'Albus'
Thymus 'Pink Chintz'
Zelkova serrata
Zinnia grandifolia

Gambel's Oak
Stonecrop
Partridge Feather
White Bouquet Daisy
Common Baldcypress
Perkysue
Germander
Juniper-leaf Thyme
White Thyme
Pink Thyme
Japanese Zelkova
Zinnia

PLANTS FOR DRY SHADE

**Geranium viscosissimum*

**Mahonia repens*

Veronica liwanensis

Veronica rupestris

Veronica pectinata

Veronica oltensis

Sticky Purple Geranium

Creeping Oregon Grape

Turkish Speedwell

Creeping Speedwell

Wooly Speedwell

Juniper-leaf Thyme

WIND PROTECTION

Deciduous

Acer ginnala

Acer platanoides

Crataegus mollis

Crataegus phaenopyrum

Tilia spp.

Amur Maple

Norway Maple

Downey Hawthorn

Washington Hawthorn

Linden

Evergreens

Abies concolor

Pinus flexilis

Pinus negra

Pinus sylvestris

Pseudotsuga menziesii

White Fir

Limber Pine

Austrian Pine

Scot Pine

Douglas Fir